

	Environmental Laboratory Licensure Application		Laboratory Services  250 N. 17 <sup>th</sup> Avenue Phoenix, AZ 85007-3231 602-364-0720 FAX 602-364-0759		
	PART E – Director Approval				
Part E lists director approved methods available to all laboratories. In addition, the director approval process is outlined in the following pages. These methods are current as of <b>January 2007</b> .					
Director Approved Methods (Refer to A.A.C. R9-14-610.B for references.) AIR = Air program. SDW = Drinking water. WW = Wastewater. HW = Solid, Liquid, and Hazardous Waste.					
Description		Program	Reference	Method	Fee
Alkaline Digestion for Hexavalent Chromium		HW	F	3060A	\$7
Microwave Extraction		HW	Note1	3546	\$7
E. coli by Colilert (in combination with Total Coliform)		SDW	C2	9223B	\$0
E. coli by Colisure (in combination with Total Coliform)		SDW	C2	9223B	\$0
Heterotrophic Plate Count (For Bottled Water testing only)		SDW	C2	9215D	\$152
Bromide		WW	Z	300.1	\$26
Chloride		WW	Z	300.1	\$26
Chloride		WW	C2	4500-Cl D	\$39
Chlorine, Total		WW	C2	4500-Cl E	\$39
Chromium (VI) Hexavalent (IC method)		WW	A1	218.6	\$26
Chromium (VI) Hexavalent (IC Method)		WW	C	3500-Cr E	\$26
Chronic Toxicity on Daphnia magna		WW	Note	Lozarchak, J. 2001	\$194
Copper		WW	C	3500-Cu E	\$76
Cyanide, Total		WW	A2	335.4	\$76
Cyanide, Total		WW	C2	4500-CN F	\$76
Cyanide, Total		WW	Z9	QuikChem 10-204-00-1-X	\$76
Fluoride		WW	Z	300.1	\$26
Kjeldahl Total, Nitrogen		WW	C2	4500-NH3 D	\$39
Kjeldahl Total, Nitrogen		WW	C2	4500-NH3 E	\$39
Nitrate		WW	Z	300.1	\$26
Nitrate		WW	C2	4500-NO3 D	\$39
Nitrate-Nitrite		WW	Z	300.1	\$26
Nitrite		WW	Z	300.1	\$26
Nitrite		WW	C2	4500-NO3 E	\$76

Nitrite	WW	C2	4500-NO3 F	\$76
Nitrite	WW	A2	353.2	\$76
Orthophosphate	WW	Z	300.1	\$26
pH (Hydrogen ion)	WW	A	150.2	\$39
Phenols	WW	A2	420.4	\$116
Sodium	WW	C	3500-Na D	\$26
Sulfide	WW	C2	4500-S2 G	\$39
Sulfate	WW	A2	375.2	\$76
Sulfate	WW	Z	300.1	\$26

Note: Lozarchak, J. 2001. "Short-term Chronic Toxicity tests on *Daphnia magna* (survival and growth tests", USEPA.

Notel: SW-846 3546 "Microwave Extraction", Rev. 0. November 2000

2. Process for Director Approved Methods (A.A.C. R9-14-610.C.)  
(This is a summary of the steps needed for approval, please refer to the rule cited for detailed instructions.)

**Note: There is a \$50 alternate method or method alteration approval fee payable to the Department of Health Services.**

- A. Request for approval of a different method or method alteration that is required by an EPA, ADEQ, the U.S. Food and Drug Administration or 9 A.A.C. 8.
1. Name, address, and telephone number of the licensee submitting the request.
  2. Name, address, and telephone number of the laboratory for which approval is requested.
  3. Identification of the parameter for which approval is requested.
  4. Reference to the EPA, ADEQ, the U.S. Food and Drug Administration or 9 A.A.C. 8 that requires or authorizes the use of the method or method alteration for which approval is requested.
- B. Request for approval of a different method or method alteration that is **not** required by an EPA or ADEQ statute or rule.
1. Name, address, and telephone number of the licensee submitting the request.
  2. Name, address, and telephone number of the laboratory for which approval is requested.
  3. Identification of the parameter for which approval is requested.
  4. Written justification for using the method or method alteration for which approval is requested, including the following:
    - a. A detailed description of the method or method alteration.
    - b. References to published or other studies confirming the general applicability of the method or method alteration to the parameter.
    - c. Reference to the EPA, ADEQ, the U.S. Food and Drug Administration or 9 A.A.C. 8 requirement to test the parameter.
    - d. Data that demonstrates the performance of the method or method alteration in terms of accuracy, precision, reliability, ruggedness, ease of use, and ability to achieve a detection limit appropriate to the proposed use of the method or method alteration.

The Department, before approving a method or method alteration that is not required or authorized by EPA or ADEQ statute or rule, may require that the method or method alteration be performed by a designated laboratory to verify that the method or method alteration complies with (C)(2)(d)(iv).